

National Transportation Program

Mission - The National Transportation Program (NTP) mission is to provide policy, guidance, technical and management support, and operational services to assure the availability of safe, secure, efficient, compliant packaging and transportation of non-national security material for all DOE programs. This mission is successful when DOE sites and programs, supported by NTP products and services, are accomplished free from packaging and transportation impediments, particularly for radioactive materials and waste, spent nuclear fuel, and nuclear materials.

Background - The Transportation Management Division (TMD) was formed in 1985 in the Office of Defense Waste and Transportation Management. With the formation of the Office of Environmental Management (EM) in 1989, TMD was transferred to EM, retaining its Department-wide functions. In 1997, most TMD functions were redefined and FTE's were deployed to Albuquerque and Idaho, creating the National Transportation Program. The operational support aspects of NTP were assigned to DOE Albuquerque. Packaging certification functions were transferred to EM-5.

Program Drivers - The packaging and transportation of non-national security material is regulated by other government agencies, primarily DOT and NRC. DOE sites and programs are responsible for conducting their own individual packaging and transportation operations in compliance with the externally mandated regulations of these agencies. The Department, however, has long recognized the complexity of regulatory compliance and achieving consistency of implementation. DOE Order 460.2, *Departmental Materials Transportation and Packaging Management*, assigns specific DOE-wide management, support, and oversight functions to EM (delegated to NTP) to mitigate complexity and assure consistency.

EM Drivers - Successful completion of EM's cleanup and closure objectives is critically dependent on its ability to package and ship radioactive materials and waste for treatment, storage, and disposal. EM is DOE's greatest beneficiary of NTP products and services. NTP functions traditionally have been located in a mission program benefiting most from its services. NTP is a mission-critical capability for the EM organization.

National Transportation Program

Products & Services

Operational Support Services

- Carrier rate negotiations and common carrier expertise
- TRANSCOM: satellite tracking of high-visibility shipments
- ATMS: Automated manifests, bills of lading, and freight bills as well as rate and route selection.
- Site support for shipping campaign planning
- TRAGIS & TRANSCOST: Shipment routing & cost optimization programs

Institutional and Informational Elements

- Corporate Public information products on packaging and transportation for shippers and stakeholders
- Funding for state, local, and tribal government stakeholder interaction activities. Funding, COR, & logistics management for the Transportation External Coordination Working Group.
- NTP packaging and transportation information website..
- Support for Campaign Planning for programs and sites, including regulatory and stakeholder reviews and advice

Risk Assessment

- RADTRAN: Transportation radiological risk analysis modeling (US model is the international standard)
- Rail Accident Analyses
- Sabotage and security risk assessment
- Risk analysis support for DOE-wide NEPA documents

National Transportation Program

Products & Services

Compliance Assistance

- MCEP: The Motor Carrier Evaluation Program provides evaluation of motor carrier's safety performance based on DOT statistics and conducts compliance audits of carriers with decreasing performance.
- TCEAP: The Transportation Compliance Evaluation and Assistance Program provides compliance support to sites without the in-house resources to establish DOT & NRC compliant transportation and packaging activities.
- SMIP: The Safety Metrics Indicator Program provides overall assessment of shipping site performance in transportation and packaging.

Packaging Technology

- Consolidated package procurement infrastructure (NTP negotiated bulk purchasing rates to 55 gallon drums, and is expanding this to include other drum sizes as well as standard waste boxes.
- International regulatory support (DOE is preeminent in this arena)

Regulatory and Standards Support

- IAEA & ANSI technical support
- NRC/DOT Regulatory Analysis for EM

Systems Engineering

- Data collection and analysis for optimum requirements definition and problem solving
- Secure Shipping workload forecasting and package needs analysis.